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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Xu, Frank Y.

App. No.: 10/763,885 GPAU: 1752

Filing Date: 01/23/2004 Examiner: Amanda C. Walke

Dkt. No.: P113-55-03 Conf. No.: 6002

For: Materials and Methods for Imprint Lithography

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449  
 Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed:

during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown below.

The Commissioner is hereby authorized to charge the \$180.00 fee to the Molecular Imprints, Inc. Deposit Account Number 502650. Applicants do not believe that any additional fees are

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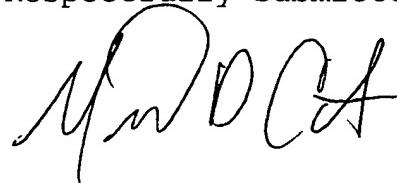
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due, but if the Commissioner believes additional fees are due, the Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

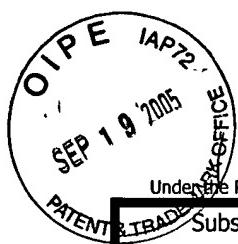
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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as either First Class Mail or Express Mail, in an envelope addressed to the Commissioner for Patents.

Signed: Katrina Prati  
Typed Name: Katrina Prati  
Date: 9-16-05

Respectfully Submitted,



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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 10

APPLICATION NUMBER	10/763,885
FILING DATE	01/23/2004
FIRST NAMED INVENTOR	Xu et al.
Group Art Unit	1752
Examiner Name	Walke, Amanda C.
Attorney Docket Number	P113-55-03

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
F1	5,512,131			Kumar et al.	4/30/1996	
F2	6,316,290	B1		Wensel	11/13/2001	
F3	6,355,198	B1		Kim et al.	3/12/2002	
F4	6,541,356	B2		Fogel et al.	4/1/2003	
F5	2004/0065252	A1		Sreenivasan et al.	4/8/2004	
F6	6,696,157	B1		David et al.	2/24/2004	
F7	6,600,207	B2		Huang et al.	7/29/2003	
F8	5,956,216			Chou	9/21/1999	
F9	5,820,769			Chou	10/13/1998	
F10	6,190,929	B1		Wang et al.	2/20/2001	
F11	5,204,381			Zeigler	4/20/1993	
F12	6,066,269			Wei et al.	5/23/2000	
F13	4,722,878			Watakabe et al.	2/2/1988	
F14	2001/0044075	A1		Nishimura et al.	11/22/2001	
F15	5,369,722			Heming et al.	11/29/1994	
F16	6,475,704	B1		Iwasaki et al.	11/5/2002	
F17	2005/0051698	A1		Sreenivasan et al.	3/10/2005	

Examiner Signature

Date Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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	F18	6,132,632		Haney et al.	10/17/2000	
	F19	6,344,105	B1	Daugherty et al.	2/5/2002	
	F20	5,905,104		Eklund et al.	5/18/1999	
	F21	6,468,896	B2	Rohr et al.	10/22/2002	
	F22	6,342,097	B1	Terry et al.	1/29/2002	
	F23	5,389,696		Dempsey et al.	2/14/1995	
	F24	5,234,793		Sebald et al.	8/10/1993	
	F25	6,174,931	B1	Moon et al.	1/6/2001	
	F26	2005/0084804	A1	Truskett et al.	4/21/2005	
	F27	2005/0100830	A1	Xu et al.	5/12/2005	
	F28	2005/0118749		Sakamoto et al.	6/2/2005	
	F29	2004/0202872	A1	Fang et al.	10/14/2004	
	F30	4,517,337		Lockhart et al.	5/14/1985	
	F31	2004/0241338	A1	Foster et al.	12/2/2004	
	F32	3,919,351		Chang et al.	11/11/1975	
	F33	4,514,439		Rounds	4/30/1985	
	F34	4,271,258		Watariguchi	6/2/1981	

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				Group Art Unit	1752
				Examiner Name	Walke, Amanda C.
				Attorney Docket Number	P113-55-03
Sheet	4	of	10		

## FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document BG		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)		T <sup>6</sup>

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Sheet	5	of	10	APPLICATION NUMBER	10/763,885
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				Group Art Unit	1752
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				Attorney Docket Number	P113-55-03

#### **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials\*      Cite<sup>1</sup> No.      Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.      T<sup>2</sup>

	F53	BLOMQUIST ET AL., Fluorinated Acrylates in making Low-Loss, Low-Birefringence, and Single-Mode Optical Waveguides with Exceptional Thermo-Optic Properties, SPIE Conference on Linear Optical Properties of Waveguides and Fibers, Vol. 3799, pp. 266 - 279 7/1/1999	
	F54	ELDADA ET AL., Robust Photopolymers for MCM, Board, and Backplane Optical Interconnects, SPIE Vol. 3288, pp. 175 - 191 1/1/1998	
	F55	ELDADA ET AL., Affordable WDM Components: The Polymer Solution, SPIE Vol. 3234, pp. 161 - 174 1/1/1998	
	F56	ELDADA ET AL., Advanced Polymer Systems for Optoelectronic Integrated Circuit Applications, SPIE Vol. 3006, pp. 344 - 361 1/1/1997	
	F57	HIRAI ET AL., Abstract of Mold Surface Treatment for Imprint Lithography, Journal of Photopolymer Science and Technology, pp 457-462, vol 14, No. 3 8/1/2001	
	F58	ROOS ET AL., Abstract of Nanoimprint Lithography with a Commercial 4 Inch Bond System for Hot Embossing, Proceedings of SPIE Vol. 4343, pp. 427-435 10/1/2001	
	F59	Sol-Gel Technology, <a href="http://www.chemat.com/html/solgel.html">www.chemat.com/html/solgel.html</a> 1/14/2004	
	F60	Sol-Gel Chemistry, <a href="http://www.prsc.usm.edu/mauritz/solgel.html">www.prsc.usm.edu/mauritz/solgel.html</a> 2/2/2004	
	F61	HAKOVIRTA ET AL., Optical Properties of Fluorinated Diamond-Like Carbon Films Produced by Pulsed Glow Discharge Plasma Immersion Ion Processing, Journal of Applied Physics 88(3); pp1456-1459 8/1/2000	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>					
Sheet		6	of	10	

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	F62	APPLICATION NO. 11/027,473, naming Inventors Bailey et al., entitled Release Layer Comprising Diamond-Like Carbon (DLC) or Doped DLC with Tunable Composition for Imprint Lithography Templates and Contact Masks, filed 12/30/2004	
	F63	APPLICATION NO. 10/789,319, naming Inventors Xu et al., entitled Composition for an Etching Mask Comprising a Silicon-Containing Material, filed 2/27/2004	
	F64	APPLICATION NO. 10/948,511, naming Inventors Xu et al., entitled Polymerization Technique to Attenuate Oxygen Inhibition of Solidification of Liquids and Composition Thereof, filed 9/23/2004	
	F65	APPLICATION NO. 10/967,740, naming Inventors Xu et al., entitled Low-K Dielectric Functional Imprinting Materials, filed 10/18/2004	
	F66	APPLICATION NO. 10/919,062, naming Inventors Xu et al., entitled Composition to Provide a Layer with Uniform Etch Characteristics, filed 8/16/2004	
	F67	APPLICATION NO. 10/919,224, naming Inventors Xu et al., entitled Method to Provide a Layer with Uniform Etch Characteristics, filed 8/16/2004	
	F68	APPLICATION NO. 10/978,285, naming Inventors Willson et al., entitled Step and Flash Imprint Lithography, filed 10/29/2004	
	F69	APPLICATION NO. 11/062,420, naming Inventors Willson et al., entitled Step and Flash Imprint Lithography, filed 2/22/2005	
	F70	APPLICATION NO. 11/068,397, naming Inventors Xu et al., entitled Method of Providing Desirable Wetting and Release Characteristics between a Mold and a Polyerizable Composition, filed 2/28/2005	

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	F71	APPLICATION NO. 11/068,174, naming Inventors Xu et al., entitled Method to Reduce Adhesion Between a Conformable Region and a Mold, filed 2/28/2005	
	F72	Data Sheet for MAK (Methyl n-Amyl Ketone), <a href="http://www.sp-chem.com/fine_e">www.sp-chem.com/fine_e</a> 1/1/2003	
	F73	Data Sheet for gamma-Glycidoxypolytrimethoxysilane, <a href="http://www.powerchemical.net/3100.htm">www.powerchemical.net/3100.htm</a> 12/5/2003	
	F74	Silicon or Silica, <a href="http://www.mii.org/Minerals/photosil">www.mii.org/Minerals/photosil</a> 3/31/2005	
	F75	Electronic Devices and Circuits, <a href="http://people.deas.harvard.edu/~jones/es154/lectures/lecture_2/materials/materials.html">people.deas.harvard.edu/~jones/es154/lectures/lecture_2/materials/materials.html</a> 3/31/2005	
	F76	Data Sheet for Cymel 303ULF, <a href="http://www.cytec.com">www.cytec.com</a>	
	F77	Data Sheet for Cycat 4040, <a href="http://www.cytec.com">www.cytec.com</a>	
	F78	International Chemical Safety Card for p-Tolueneulfonic Acid, <a href="http://www.itcilo.it/english/actrav/telearn/osh/ic/104154.htm">www.itcilo.it/english/actrav/telearn/osh/ic/104154.htm</a> 12/5/2003	
	F79	Data Sheet for p-Toluenesulfonic Acid, NIOSH Manual of Analytical Methods (NMAM), Fourth Edition	

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Sheet 8 of 10					
				APPLICATION NUMBER	10/763,885
				FILING DATE	01/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1752
				Examiner Name	Walke, Amanda C.
				Attorney Docket Number	P113-55-03

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	F80	Data Sheet for Dow Corning Z-6018,	
	F81	Data Sheet for Methyl Amyl Ketone, <a href="http://www.arb.ca.gov/db/solvents/solvent_pages/Ketones-HTML/methyl_amyl.htm">www.arb.ca.gov/db/solvents/solvent_pages/Ketones-HTML/methyl_amyl.htm</a> 3/31/2005	
	F82	GOLDEN ET AL., Designing Porous Low-k Dielectrics, <a href="http://www.reed-electronics.com/semiconductor/index.asp?layout=articlePrint&amp;articleID=CA82824">www.reed-electronics.com/semiconductor/index.asp?layout=articlePrint&amp;articleID=CA82824</a> 4/6/2005	
	F83	PADOVANI ET AL., Chemically Bonded Porogens in Methylsilsesquioxane: I. Structure and Bonding, Journal of the Electrochemical Society, 149 (12) F161-F170 10/16/2002	
	F84	WOLF ET AL., Silicon Processing for the VLSI Era, Volume 1--Process Technology, pp. 407-413 1/1/1986	
	F85	TANIGUCHI ET AL., Diamond Nanoimprint Lithography, Nanotechnology, 2002, vol. 13, no. 5, pp. 592-596(5) 1/1/2002	
	F86	KIYOHARA ET AL., Abstract of Plasma Etching of CVD Diamond Films using an ECR-type Oxygen Source, <a href="http://www.iop.org/EJ/abstract/0957-4484/10/4/304">http://www.iop.org/EJ/abstract/0957-4484/10/4/304</a> 9/26/2003	
	F87	WOLF ET AL., Silicon Processing for the VLSI Era, Volume 1--Process Technology, pp. 541, 542, 544, 564, 565 1/1/1986	
	F88	Abstract of Japanese Patent 61-040845, 2/27/1986	

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				FILING DATE	01 / 23 / 2004
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				Group Art Unit	1752
				Examiner Name	Walke, Amanda C.
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	F89	Abstract of Japanese Patent 02-248480, 10/4/1990	
	F90	Abstract of Japanese Patent 3-090345, 4/16/1991	
	F91	Abstract of Japanese Patent 09-278490, 10/28/1997	
	F92	Abstract of Japanese Patent 61-040845, 2/27/1986	
	F93	Abstract of Japanese Patent 02-248480, 10/4/1990	
	F94	APPLICATION NO. 11/187,406, naming Inventors Xu, entitled Composition for adhering materials together, filed 7/22/2005	
	F95	APPLICATION NO. 11/187,407, naming Inventors Xu, entitled Method for adhering materials together, filed 7/22/2005	
	F96	XU ET AL., Development of Imprint Materials for the Step and Flash Imprint Lithography Process, SPIE Microlithography Conference 2/1/2004	
	F97	NORDQUIST ET AL., Image Placement Issues for ITO-based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B, pp. 695-701 3/1/2004	

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Sheet	10	of	10		
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	F98	RESNICK ET AL., Release Layers for Contact and Imprint Lithography, Semiconductor International, pp. 71-80 6/1/2002	

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